

APPENDIX A

WIND CHILL CALCULATION CHART

The “wind chill” temperature is an estimate of the still air temperature that causes the same skin cooling as each of the particular combinations of wind and temperature listed. It provides a rough, but quantitative index of the risk of freezing injury to exposed skin. The estimates in this table are based on the effect of wind and cold on dry skin in healthy individuals with normal skin. Wet skin or restricted circulation will increase the susceptibility to freezing.

WIND SPEED (MPH)	ACTUAL TEMPERATURE (°F)											
	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60
CALM	EQUIVALENT CHILL TEMPERATURE (°F)											
	50	40	30	20	10	0	-10	-20	-30	-40	-50	-60
5	48	37	27	16	6	-5	-15	-26	-36	-47	-57	-68
10	40	28	16	3	-9	-21	-33	-46	-58	-70	-83	-95
15	36	22	9	-5	-18	-32	-45	-58	-72	-85	-99	-112
20	32	18	4	-10	-25	-39	-53	-67	-82	-96	-110	-124
25	30	15	0	-15	-29	-44	-59	-74	-89	-104	-118	-133
30	28	13	-2	-18	-33	-48	-63	-79	-94	-109	-125	-140
35	27	11	-4	-20	-35	-51	-67	-82	-98	-113	-129	-145
40	26	10	-6	-22	-37	-53	-69	-85	-101	-117	-132	-148
(WIND SPEEDS GREATER THAN 40 mph HAVE LITTLE ADDITIONAL EFFECT)	LITTLE DANGER				INCREASED DANGER				GREAT DANGER			
	(If exposure is less than 5 hrs to dry skin. Greatest hazard is from false sense of security)				(Exposed skin may freeze within 1 minute)				(Exposed skin may freeze within 30 seconds)			

APPENDIX D

COLD WEATHER INFORMATION SOURCES

Department of the Army, FM 31-70, Basic Cold Weather Manual

Department of the Army, FM 31-71, Northern Operations

Department of the Army, FM 31-72, Mountain Operations

Department of the Army, FM 21-10, Field Hygiene and Sanitation

Department of the Army, FM 21-11, First Aid for Soldiers

Department of the Army, TC 21-3, Soldiers Handbook for Individual Operations & Survival in Cold Weather Areas

Department of the Army, TB MED 81, Cold Injury (Under Revision, To be released as TB MED 508)

US Army Northern Warfare Training Center, Fort Greely, Alaska, Winter Operations Manual

Department of the Navy, FM 7-32, Small Unit Leader's Guide to Cold Weather Operations